

FILE 'REGISTRY' ENTERED AT 10:01:55 ON 18 JUL 2007

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 34 S L1 SSS FULL
L4 STRUCTURE UPLOADED

FILE 'CAPLUS' ENTERED AT 10:05:32 ON 18 JUL 2007

L5 13 S L3/THU
L6 8 S L5 AND (PY<2001 OR AY<2001 OR PRY<2001)

=> file registry
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 10:01:55 ON 18 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 17 JUL 2007 HIGHEST RN 942577-08-4
DICTIONARY FILE UPDATES: 17 JUL 2007 HIGHEST RN 942577-08-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

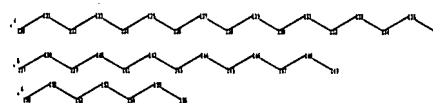
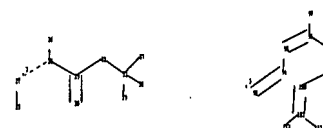
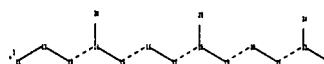
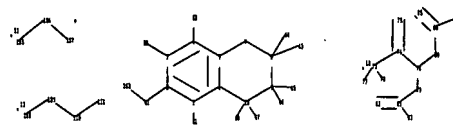
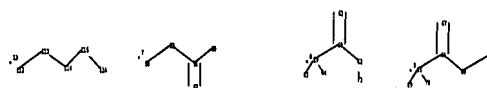
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10635444claim1.str

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 73-77 73-78
 74-75 74-76 76-79 76-80 79-81 80-84 81-82 81-83 84-85 84-86 93-94 94-95
 95-96 96-97 96-98
 98-99 99-100 100-101 101-102 101-103 105-106 106-107 108-109 109-110
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 138-139 139-140
 140-141 141-142 142-143 143-144 144-145 145-146 146-147 147-148 148-149
 150-151 151-152
 152-153 153-154 154-155 155-156
 ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10
 exact/norm bonds :
 1-51 2-41 3-50 4-53 5-7 6-10 7-8 8-9 8-43 8-44 9-10 9-45 9-46 10-47
 10-48 11-12 12-13 13-14 14-15 14-26 15-16 16-17 17-18 18-19 18-25 19-20
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 41-162 54-55
 55-56 59-60 59-63 59-64 60-61 60-62 62-72 65-66 65-69 65-70 66-67 66-68
 68-71 73-74 73-77
 73-78 74-75 74-76 76-79 76-80 79-81 80-84 93-94 94-95 95-96 96-97 96-98
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 115-116 120-121 121-122 122-123 123-124 124-125 125-126 126-127 127-128
 128-129 129-130
 130-131 131-132 132-133 133-134 134-135 135-136 137-138 138-139 139-140
 140-141 141-142
 142-143 143-144 144-145 145-146 146-147 147-148 148-149 150-151 151-152
 152-153 153-154
 154-155 155-156
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 56-57 56-58 81-82 81-83 84-85 84-86

G1:O,S,N

G2:O,N

G3:H,CH3

G4:CH3,COOH,[*1],[*2],[*3],[*4],[*5],[*6]

G5:[*7],[*8],[*9],[*10],[*11],[*12],[*13]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
 19:CLASS 20:CLASS
 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS
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 149:CLASS 150:CLASS
 151:CLASS 152:CLASS 153:CLASS 154:CLASS 155:CLASS 156:CLASS 162:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 10:03:09 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 8750 TO ITERATE

22.9% PROCESSED 2000 ITERATIONS 0 ANSWERS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**

PROJECTED ITERATIONS: 169393 TO 180607

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 10:03:29 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 174859 TO ITERATE

100.0% PROCESSED 174859 ITERATIONS 34 ANSWERS
 SEARCH TIME: 00.00.01

L3 34 SEA SSS FUL L1

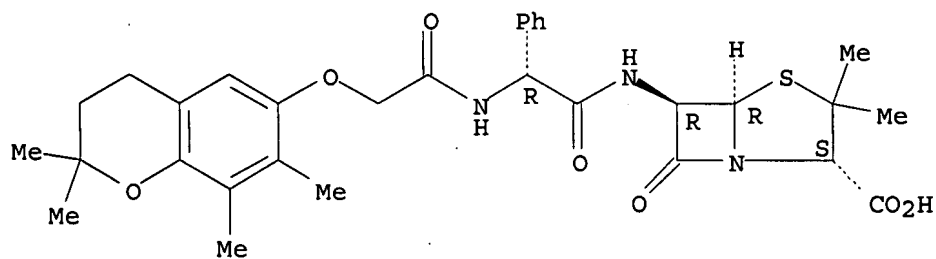
=> d l3 scan

L3 34 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[(3,4-dihydro-2,2,7,8-tetramethyl-2H-1-benzopyran-6-yl)oxy]acetyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2 α ,5 α ,6 β (S*)]]- (9CI)

MF C31 H37 N3 O7 S

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

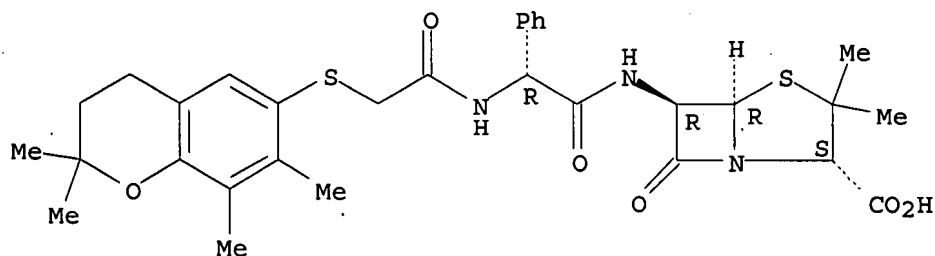
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L3 34 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[(3,4-dihydro-2,2,7,8-tetramethyl-2H-1-benzopyran-6-yl)thio]acetyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2 α ,5 α ,6 β (S*)]]- (9CI)

MF C31 H37 N3 O6 S2

Absolute stereochemistry.

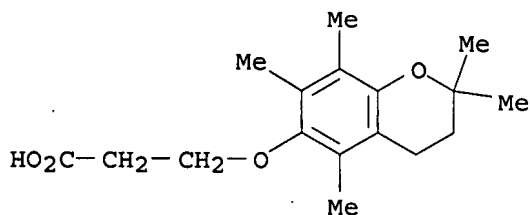


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 34 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN Propanoic acid, 3-[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-yl)oxy]- (9CI)

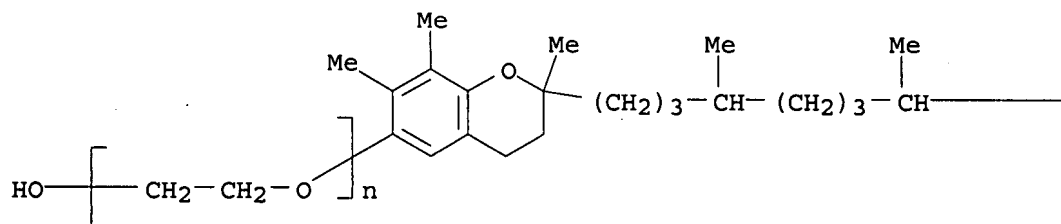
MF C17 H24 O4



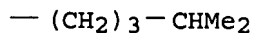
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 34 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Poly(oxy-1,2-ethanediyl), α -[3,4-dihydro-2,7,8-trimethyl-2-(4,8,12-trimethyltridecyl)-2H-1-benzopyran-6-yl]- ω -hydroxy- (9CI)
 MF (C2 H4 O)_n C28 H48 O2
 CI PMS

PAGE 1-A

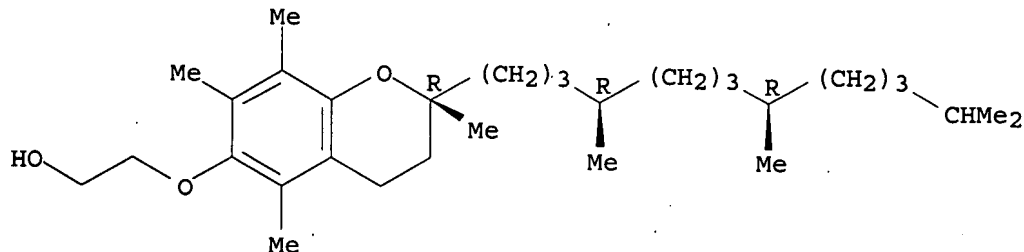


PAGE 1-B



L3 34 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Ethanol, 2-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]- (9CI)
 MF C31 H54 O3

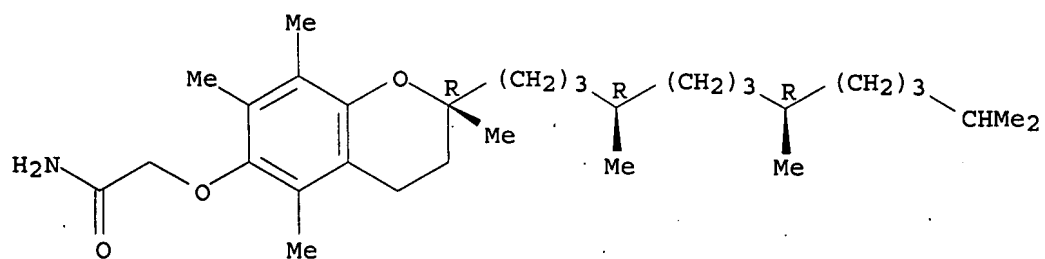
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 34 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Acetamide, 2-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]- (9CI)
 MF C31 H53 N O3

Absolute stereochemistry.

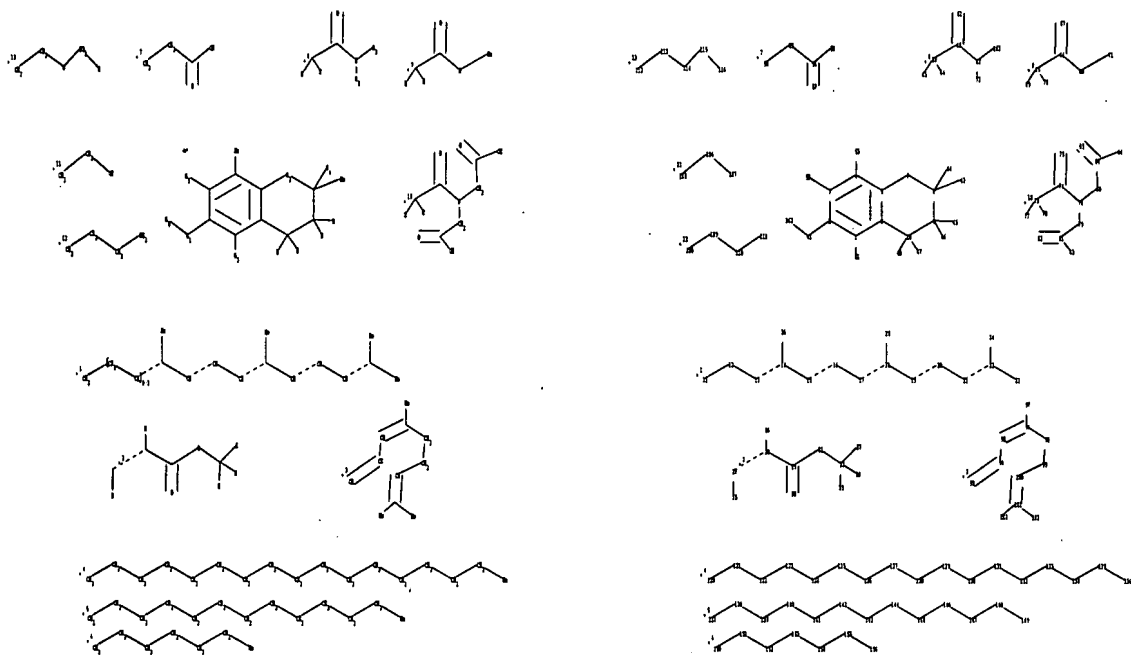


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>

Uploading C:\Program Files\Stnexp\Queries\10635444claim1b.str



chain nodes :

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
32 35 36 37 38 39 41 43 44 45 46 47 48 50 51 53 54 55 56 57 58
59 60 61
62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82
83 84 85 86
93 94 95 96 97 98 99 100 101 102 103 105 106 107 108 109 110 111
112 113 114
115 116 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134
135 136 137
138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154
155 156 162
163

ring nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

1-51 2-41 3-50 4-53 8-43 8-44 9-45 9-46 10-47 10-48 11-12 12-13 13-14
14-15 14-26 15-16 16-17 17-18 18-19 18-25 19-20 20-21 21-22 22-23 22-24
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137-138 138-139
139-140 140-141 141-142 142-143 143-144 144-145 145-146 146-147 147-148
148-149 150-151
151-152 152-153 153-154 154-155 155-156

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10

exact/norm bonds :

1-51 2-41 3-50 4-53 5-7 6-10 7-8 8-9 8-43 8-44 9-10 9-45 9-46 10-47
10-48 11-12 12-13 13-14 14-15 14-26 15-16 16-17 17-18 18-19 18-25 19-20
20-21 21-22
22-23 22-24 27-28 27-35 28-29 28-36 29-30 29-31 31-32 32-37 32-38 32-39
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139-140 140-141
141-142 142-143 143-144 144-145 145-146 146-147 147-148 148-149 150-151
151-152 152-153
153-154 154-155 155-156

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 56-57 56-58 81-82 81-83 84-85 84-86

G1:O,S,N

G2:O,N

G3:H,CH3

G4:CH3,COOH,[*1],[*2],[*3],[*4],[*5],[*6]

G5:[*7],[*8],[*9],[*10],[*11],[*12],[*13]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
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149:CLASS 150:CLASS
151:CLASS 152:CLASS 153:CLASS 154:CLASS 155:CLASS 156:CLASS 162:CLASS
163:CLASS

L4 STRUCTURE UPLOADED

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

174.35

174.56

FILE 'CAPLUS' ENTERED AT 10:05:32 ON 18 JUL 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 18 Jul 2007 VOL 147 ISS 4

FILE LAST UPDATED: 17 Jul 2007 (20070717/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l3/thu

35 L3
913397 THU/RL
L5 13 L3/THU
(L3 (L) THU/RL)

=> s 15 and (PY<2001 or AY<2001 or PRY<2001)

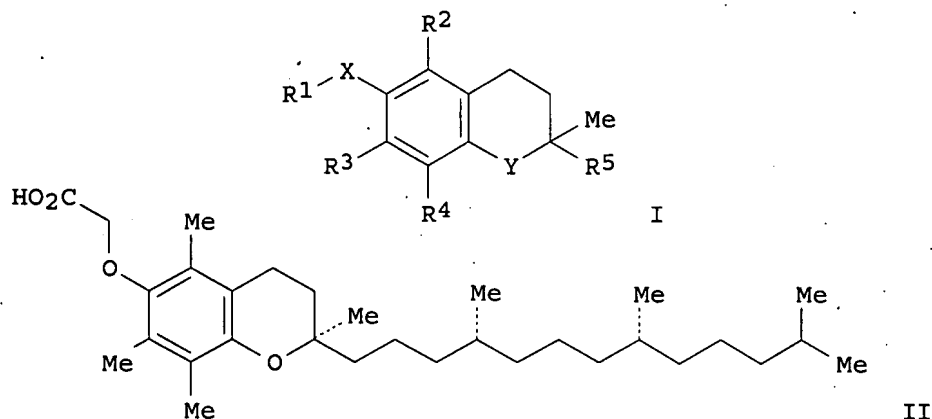
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3386616 PRY<2001
L6 8 L5 AND (PY<2001 OR AY<2001 OR PRY<2001)

=> d l6 1-8 ti abs bib hitstr

L6 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of tocopherols, tocotrienols, other chroman and side chain
derivatives for therapeutic use in the prevention and treatment of cancer

GI



AB Chroman derivs., such as I [X = O, S, NR₆; Y = O, NR₆; R₁ = carboxyalkyl, carboxyalkenyl, etc.; R₂, R₃, R₄ = H, Me, alkyl, etc.; R₅ = alkyl, alkenyl, etc.; R₆ = H, alkyl], were prepared for use in antitumor pharmaceutical compns. for inducing apoptosis in a cell, particularly a cancer cell. Thus, α-tocopherol derivative II was prepared in 88% yield by a reaction of BrCH₂CO₂Me with (R,R,R)-α-tocopherol using NaOH in DMF. The prepared chromans were assayed for growth inhibitory and apoptotic activity against a variety of human cancer cell lines.

AN 2004:618733 CAPLUS <<LOGINID::20070718>>

DN 141:174332

TI Preparation of tocopherols, tocotrienols, other chroman and side chain
derivatives for therapeutic use in the prevention and treatment of cancer

IN Sanders, Bob G.; Kline, Kimberly; Hurley, Laurence; Gardner, Robb;
Menchaca, Marla; Yu, Weiping; Ramanan, Puthucode N.; Liu, Shenquan;
Israel, Karen

PA Research Development Foundation, USA

SO U.S., 48 pp., Cont.-in-part of U.S. Ser. No. 404,001.

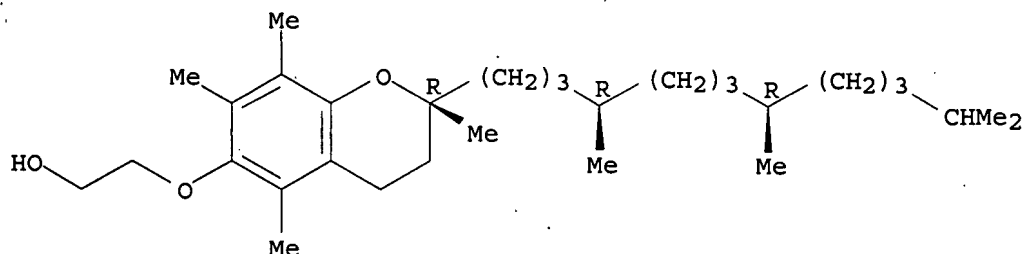
CODEN: USXXAM

DT Patent

LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	US 6417223	B1	20020709	US 1999-404001	19990923 <--
	CA 2399802	A1	20010816	CA 2001-2399802	20010209 <--
	WO 2001058889	A1	20010816	WO 2001-US4168	20010209 <--
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
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	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
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RU	2263672	C2	20051110	RU 2002-124135	20010209 <--
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US	6703384	B2	20040309		
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	US 2000-502592	A	20000211	<--	
	WO 2001-US4168	W	20010209		
	US 2001-8066	A3	20011105		
OS	MARPAT 141:174332				
IT	200701-54-8P				
	RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)				
	(preparation of tocopherols, tocotrienols, other chroman and side chain derivs. for therapeutic use in prevention and treatment of cancer)				
RN	200701-54-8 CAPLUS				
CN	Ethanol, 2-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]- (9CI) (CA INDEX NAME)				

Absolute stereochemistry.



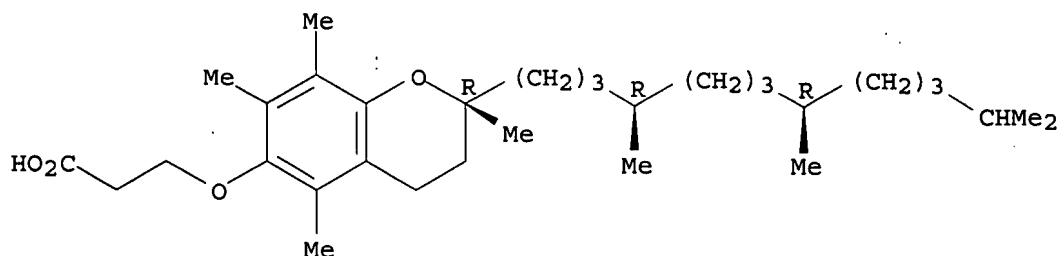
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(preparation of tocopherols, tocotrienols, other chroman and side chain
derivs. for therapeutic use in prevention and treatment of cancer)

RN 261929-53-7 CAPLUS

CN Propanoic acid, 3-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]- (9CI) (CA INDEX NAME)

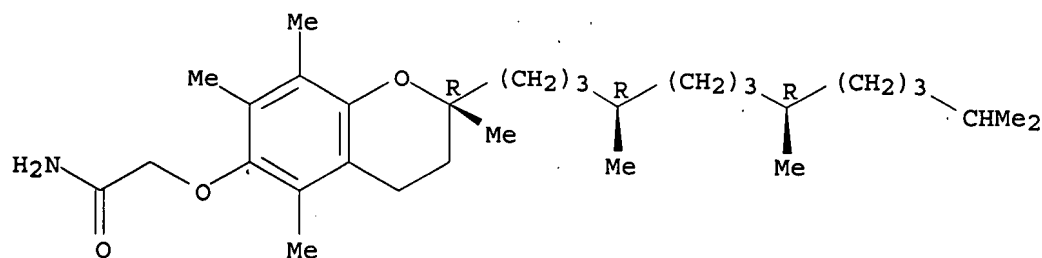
Absolute stereochemistry.



RN 261929-60-6 CAPLUS

CN Acetamide, 2-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]- (9CI) (CA INDEX NAME)

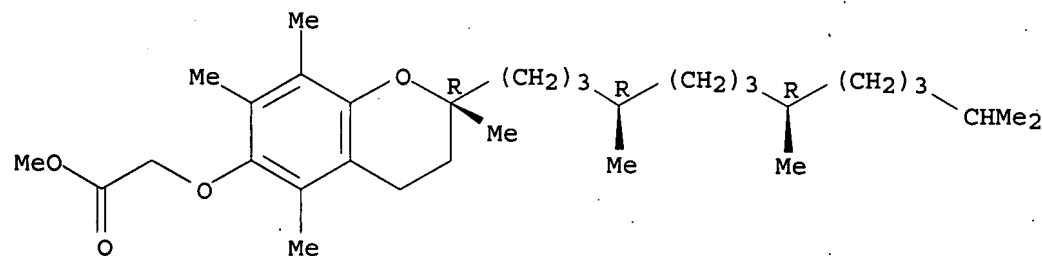
Absolute stereochemistry.



RN 261929-61-7 CAPLUS

CN Acetic acid, [[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

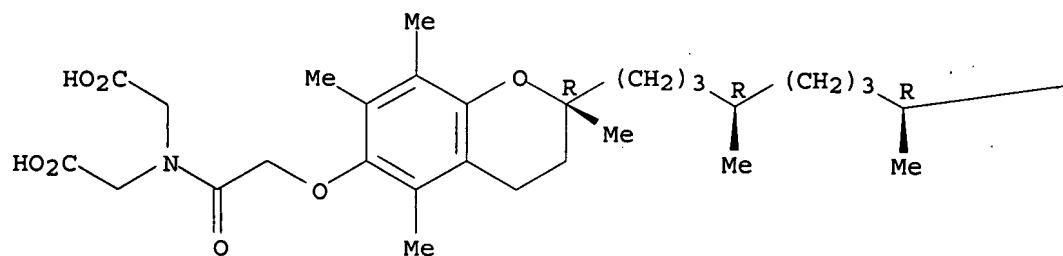


RN 261929-62-8 CAPLUS

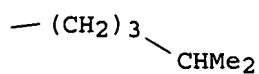
CN Glycine, N-(carboxymethyl)-N-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

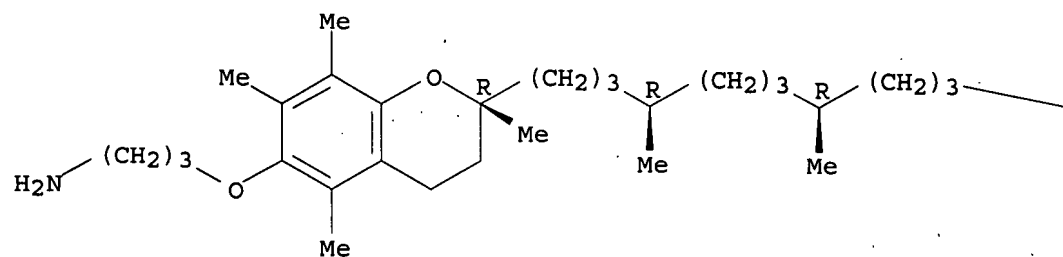


RN 261929-67-3 CAPLUS

CN 1-Propanamine, 3-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



● HCl

PAGE 1-B



RN 261929-70-8 CAPLUS

CN Ethanol, 2-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]-, hydrogen sulfate, compd. with N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

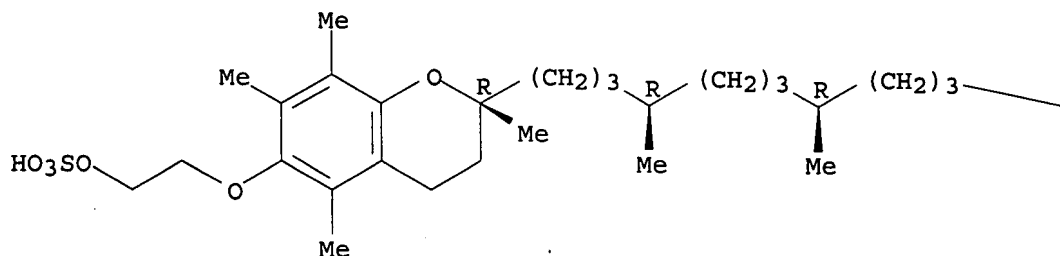
CM 1

CRN 261929-69-5

CMF C31 H54 O6 S

Absolute stereochemistry.

PAGE 1-A



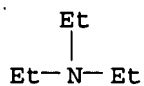
PAGE 1-B

—CHMe₂

CM 2

CRN 121-44-8

CMF C6 H15 N



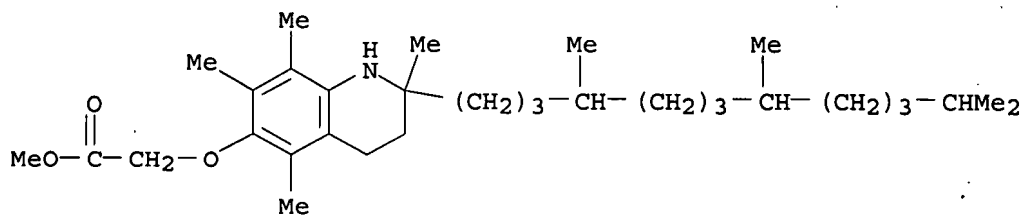
IT 354526-64-0P 354526-65-1P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

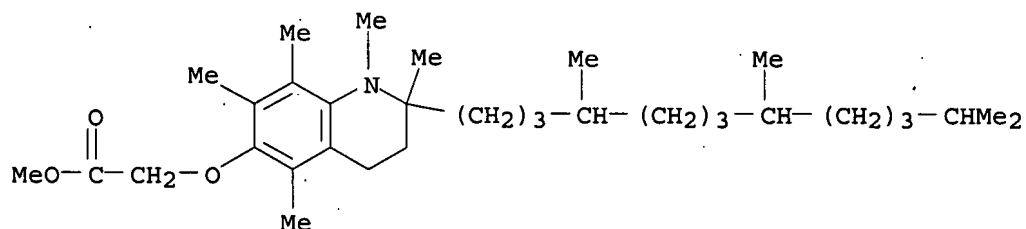
(preparation of tocopherols, tocotrienols, other chroman and side chain derivs. for therapeutic use in prevention and treatment of cancer)

RN 354526-64-0 CAPLUS

CN Acetic acid, [[1,2,3,4-tetrahydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-6-quinolinyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)

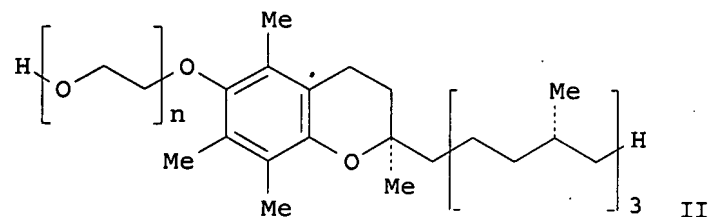
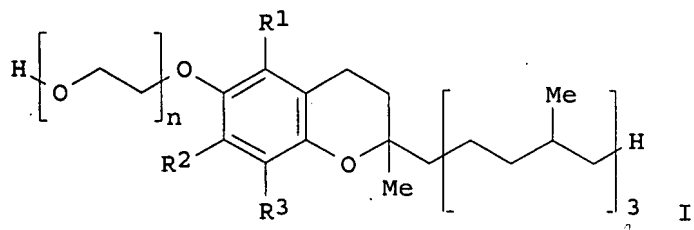


RN 354526-65-1 CAPLUS
 CN Acetic acid, [[1,2,3,4-tetrahydro-1,2,5,7,8-pentamethyl-2-(4,8,12-trimethyltridecyl)-6-quinolinyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Industrial preparation of water-soluble and vitamin-active polyethylene glycol ethers of tocopherol
 GI



AB The invention relates to novel polyethylene glycol ethers of tocopherol of formula I [wherein: R1, R2, R3 = H, Me (corresponding to tocopherols α , β , γ , ξ , ϵ , η , δ); $n = 101-150$] useful in chemical, medicine, cosmetol., and food industry due to their vitamin activity (vitamin E) and water solubility. Comps. I are prepared via industrial scale reaction of tocopherol esters with ethylene oxide in the presence of alkali at 120-150 °C, with the ethylene oxide being supplied at such velocity as to maintain the temperature of the reaction mixture within the defined limits. The process is carried out in an autoclave at a pressure of 1-3 atm and an ethylene oxide-to-tocopherol molar ratio between 25:1 and 150:1. The proposed method is a cost-effective preparation of water-soluble and vitamin-active tocopherol derivs. containing long polyethylene

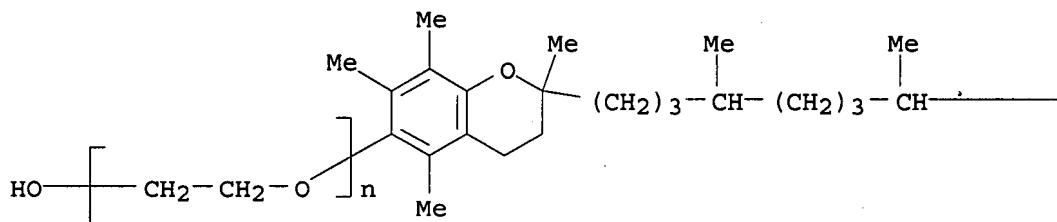
glycol chains. For instance, compound II (n = 110) was prepared via reaction of α -tocopherol acetate with ethylene oxide in the presence of KOH with a yield of 84%. The compds. I retain the vitamin activity of the corresponding tocopherol acetates (no data).

AN 2003:482531 CAPLUS <<LOGINID::20070718>>
 DN 140:235911
 TI Industrial preparation of water-soluble and vitamin-active polyethylene glycol ethers of tocopherol
 IN Kalinichenko, A. N.; Sotnikov, P. S.; Morozova, Z. V.; Danilenko, L. V.
 PA OOO "MDT", Russia
 SO Russ., No pp. given
 CODEN: RUXXE7
 DT Patent
 LA Russian
 FAN.CNT 1

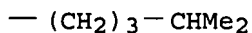
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	RU 2201926	C2	20030410	RU 2000-115916	20000622 <--
PRAI	RU 2000-115916		20000622	<--	
IT	74707-11-2P 146598-22-3P 146598-23-4P 146683-37-6P				

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (industrial preparation of water-soluble and vitamin-active polyethylene glycol ethers of tocopherols prepared via reaction of tocopherol esters with ethylene oxide)
 RN 74707-11-2 CAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -[3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]- ω -hydroxy-, (2R)- (9CI) (CA INDEX NAME)

PAGE 1-A

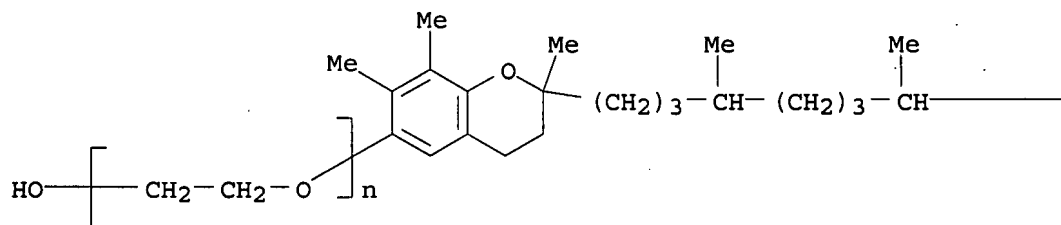


PAGE 1-B

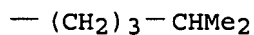


RN 146598-22-3 CAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -[3,4-dihydro-2,7,8-trimethyl-2-(4,8,12-trimethyltridecyl)-2H-1-benzopyran-6-yl]- ω -hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

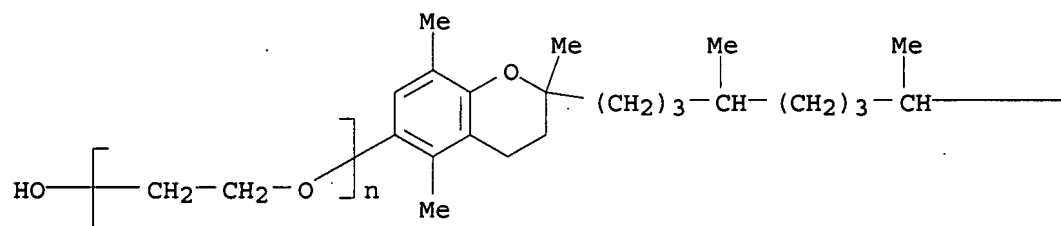


PAGE 1-B

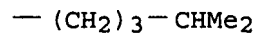


RN 146598-23-4 CAPLUS
 CN Poly(oxy-1,2-ethanediyl), α-[3,4-dihydro-2,5,8-trimethyl-2-(4,8,12-trimethyltridecyl)-2H-1-benzopyran-6-yl]-ω-hydroxy- (9CI) (CA INDEX NAME)

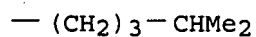
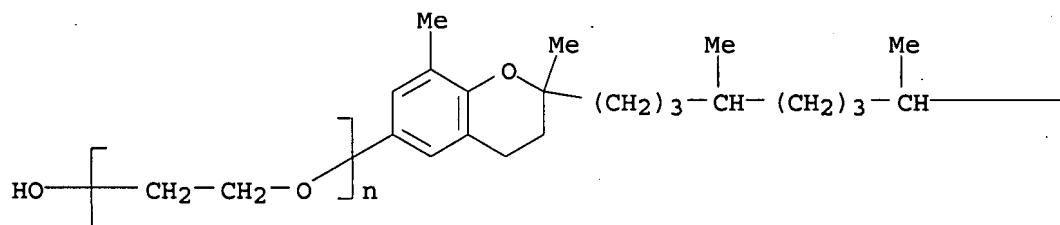
PAGE 1-A



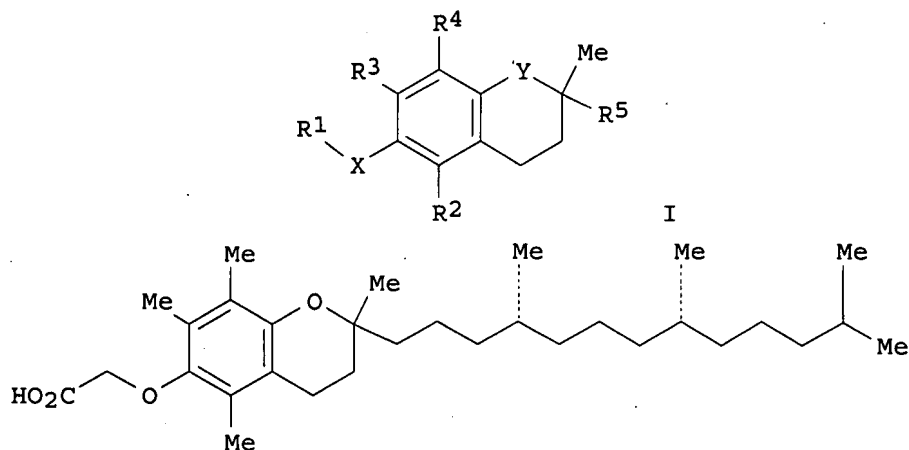
PAGE 1-B



RN 146683-37-6 CAPLUS
 CN Poly(oxy-1,2-ethanediyl), α-[(2R)-3,4-dihydro-2,8-dimethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]-ω-hydroxy- (9CI) (CA INDEX NAME)



L6 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Preparation of tocopherols, tocotrienols, other chromans and side chain
 derivs. as potential antiproliferative and proapoptotic agents
 GI



II

AB Derivs. of tocopherol, tocotrienol and other chromans of formula I (X and Y independently are oxygen, nitrogen or sulfur; when Y is nitrogen, nitrogen is substituted with R6 and R6 = H or Me; R1 = alkyl, alkenyl, alkynyl, aryl, heteroaryl, carboxylic acid, carboxylate, carboxamide, ester, thioamide, thiolacid, thiol ester, saccharide, alkoxy-linked saccharide, amine, sulfonate, sulfate, phosphate, alc., ethers or nitrites; R2, R3 = hydrogen or R4; R4 = Me, benzyl carboxylic acid, benzyl carboxylate, benzyl carboxamide, benzyl ester, saccharide or amine; and R5 = alkenyl) were prepared as antiproliferative and proapoptotic agents for the potential treatment of cell proliferative diseases. Thus, α -tocopherol was treated with Me bromoacetate and NaOH in N, N-dimethylformamide to give II. II showed effective growth inhibitory

properties (apoptotic inducing) in a wide variety of human cancer cell lines, including breast, prostate, cervical, and ovarian cancers with EC50 values ranging from 1-20 µg/mL.

AN 2002:595501 CAPLUS <<LOGINID::20070718>>

DN 137:140656

TI Preparation of tocopherols, tocotrienols, other chromans and side chain derivs. as potential antiproliferative and proapoptotic agents

IN Sanders, Bob G.; Kline, Kimberly; Yu, Weiping

PA Research Development Foundation, USA

SO U.S. Pat. Appl. Publ., 44 pp., Cont.-in-part of U. S. Ser. No. 502,592.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002107207	A1	20020808	US 2001-8066	20011105 <--
	US 6703384	B2	20040309		
	US 6417223	B1	20020709	US 1999-404001	19990923 <--
	CN 1706838	A	20051214	CN 2005-10003855	19990923 <--
	US 6770672	B1	20040803	US 2000-502592	20000211 <--
	US 2002156024	A1	20021024	US 2002-122019	20020412 <--
	US 6645998	B2	20031111		
	WO 2003039461	A2	20030515	WO 2002-US35147	20021101
	WO 2003039461	A3	20031113		

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU	2002353971	A1	20030519	AU 2002-353971	20021101
US	2004097431	A1	20040520	US 2003-695275	20031028 <--

PRAI	US 1998-101542P	P	19980923	<--
	US 1999-404001	A2	19990923	<--
	US 2000-502592	A2	20000211	<--
	US 1998-101543P	P	19980923	<--
	CN 1999-812829	A3	19990923	<--
	US 2001-8066	A	20011105	
	WO 2002-US35147	W	20021101	

OS MARPAT 137:140656

IT 200701-54-8P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);

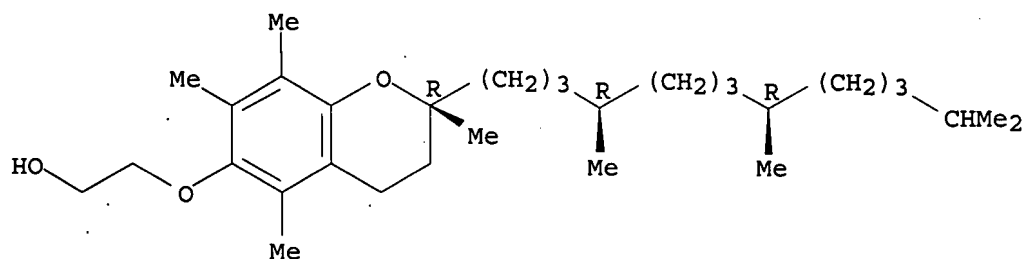
PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of tocopherols, tocotrienols, other chromans and side chain derivs. as potential antiproliferative, proapoptotic agents for the treatment of cancer)

RN 200701-54-8 CAPLUS

CN Ethanol, 2-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 261929-53-7P 261929-60-6P 261929-61-7P
261929-62-8P 261929-67-3P

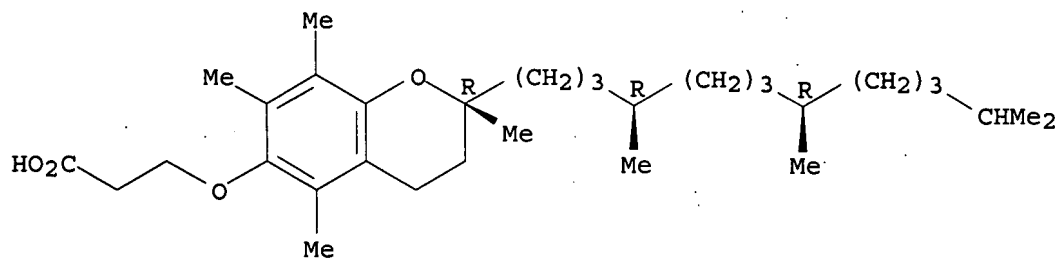
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of tocopherols, tocotrienols, other chromans and side chain derivs. as potential antiproliferative, proapoptotic agents for the treatment of cancer)

RN 261929-53-7 CAPLUS

CN Propanoic acid, 3-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]- (9CI) (CA INDEX NAME)

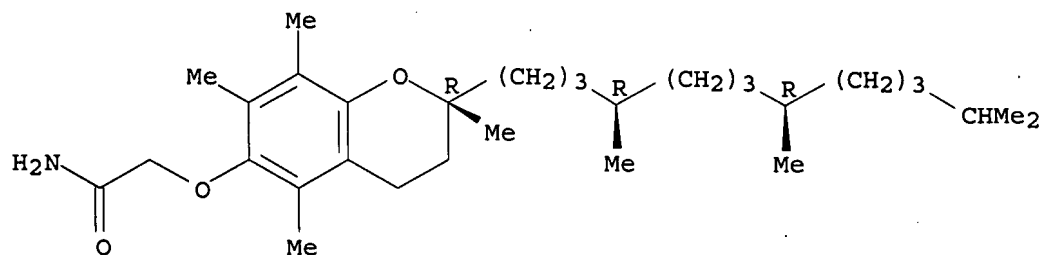
Absolute stereochemistry.



RN 261929-60-6 CAPLUS

CN Acetamide, 2-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]- (9CI) (CA INDEX NAME)

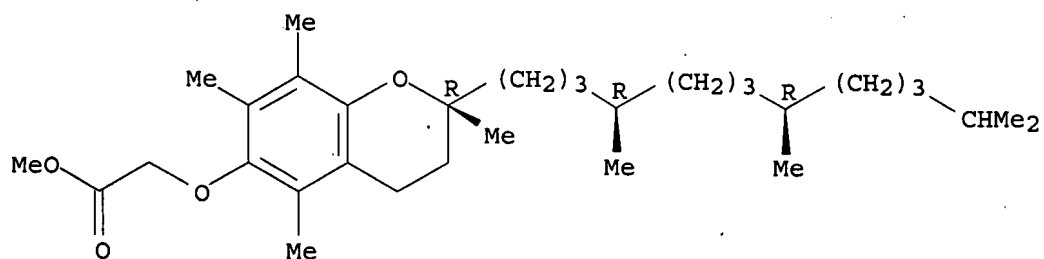
Absolute stereochemistry.



RN 261929-61-7 CAPLUS

CN Acetic acid, [[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

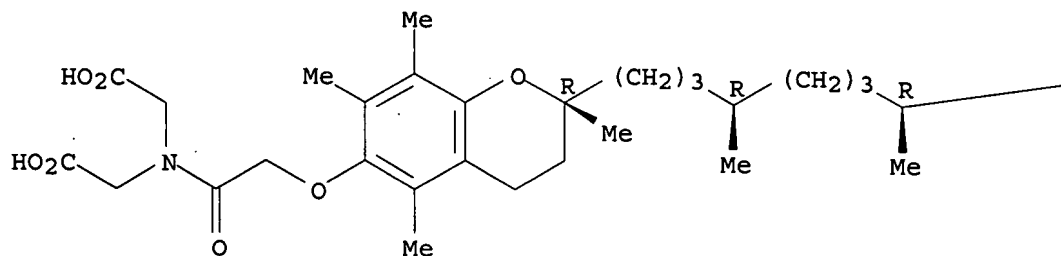


RN 261929-62-8 CAPLUS

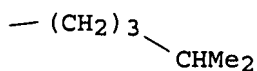
CN Glycine, N-(carboxymethyl)-N-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]acetyl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



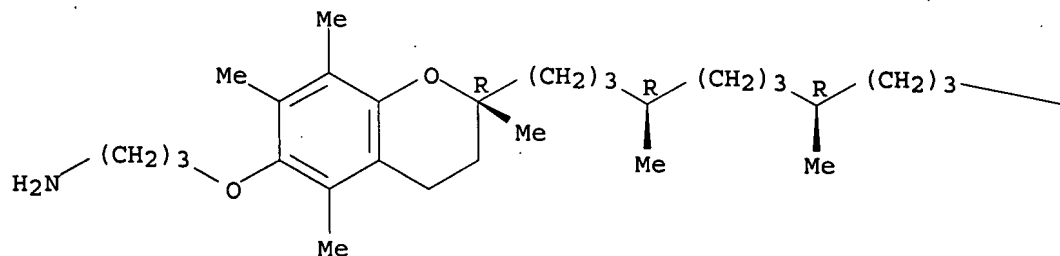
PAGE 1-B



RN 261929-67-3 CAPLUS

CN 1-Propanamine, 3-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

—CHMe₂

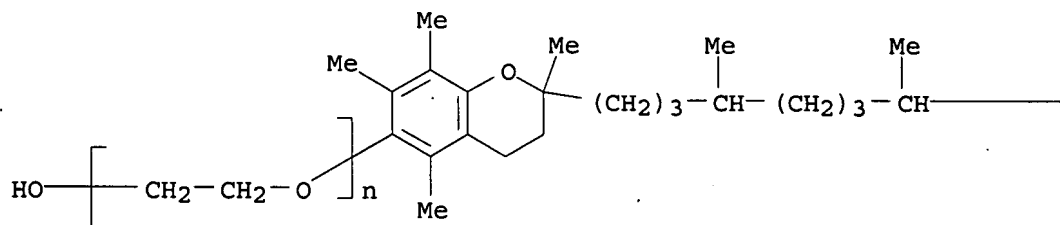
L6 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Storage-stable compositions of glycerol monoalkyl ethers
 AB The present invention relates to compns. which comprise a combination (a) of 1 or more glycerol monoalkyl ethers, ROCH₂CHOHCH₂OH (where R= a branched or unbranched C3-18 alkyl, in which the alkyl group can be substituted by 1 or more hydroxyl and/or C1-4 alkoxy and/or the alkyl chain can be interrupted by up to 4 oxygen atoms), and (b) an antioxidant or 2 or more antioxidants as stabilizers, the simultaneous presence of phosphocholines and phosphocholine derivs. being excluded. 3-[(2-Ethylhexyl)oxy]-1,2-propanediol (Sensiva SC50) was mixed with a variety of substances, and the stability of the compns. during storage at room temperature in blue polyethylene bottles was tested. Following preparation of the samples, the value for ppm of H₂O₂ and the pH were determined at regular intervals. BHT, BHA, vitamin E and dexpantenol stabilize the glycerol monoalkyl ethers over a long period, and in particular the appearance of peroxides, determined by the Merckoquant peroxide test, is avoided and as a result the neck-in effect is no longer observed when the antioxidants are used.

AN 2001:903775 CAPLUS <<LOGINID::20070718>>
 DN 136:42534
 TI Storage-stable compositions of glycerol monoalkyl ethers
 IN Beilfuss, Wolfgang; Gradtke, Ralf
 PA Air Liquide Sante (International), Fr.; Schuelke & Mayr G.m.b.H.
 SO PCT Int. Appl., 32 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001093825	A1	20011213	WO 2001-IB865	20010517 <--
	W: BR, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				

DE 10028638	A1	20011220	DE 2000-10028638	20000609 <--
EP 1301168	A1	20030416	EP 2001-928160	20010517 <--
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JP 2003535116	T	20031125	JP 2002-501398	20010517 <--
BR 2001011532	A	20040706	BR 2001-11532	20010517 <--
EP 1806123	A2	20070711	EP 2007-105644	20010517 <--
R: DE, ES, FR, GB, IT				
US 2003149097	A1	20030807	US 2002-297795	20021209 <--
US 6956062	B2	20051018		
US 2005238681	A1	20051027	US 2005-159056	20050622 <--
PRAI DE 2000-10028638	A	20000609	<--	
EP 2001-928160	A3	20010517		
WO 2001-IB865	W	20010517		
US 2002-297795	A1	20021209		
OS	MARPAT 136:42534			
IT	74707-11-2			
	RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)			
	(storage-stable compns. of glycerol monoalkyl ethers)			
RN	74707-11-2 CAPLUS			
CN	Poly(oxy-1,2-ethanediyl), α -[3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]- ω -hydroxy-, (2R)- (9CI) (CA INDEX NAME)			

PAGE 1-A

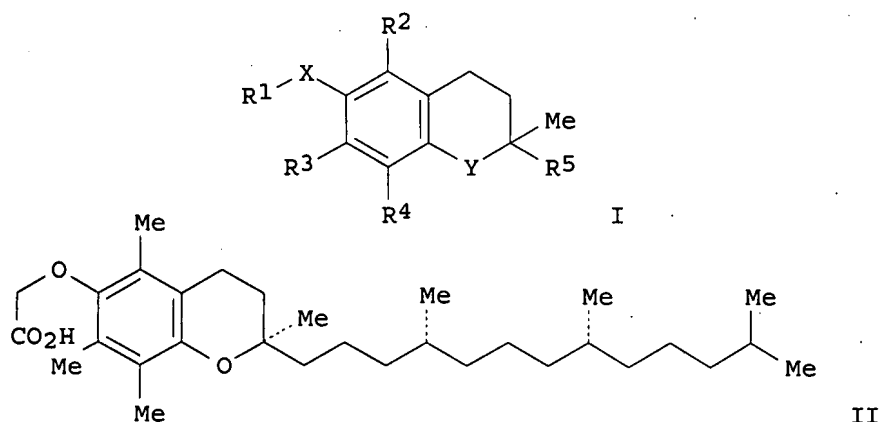


PAGE 1-B

— (CH₂)₃—CHMe₂

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of tocopherols, tocotrienols, other chroman and side chain derivatives that induce cell apoptosis for therapeutic use as antiproliferative agents
GI



AB Tocopherol analogs, such as I [X = O, NH, S; Y = O, NH, S; R1 = alkyl, alkenyl, alkynyl, aryl, heteroaryl, carboxyl, carboxamide, thiocarboxyl, etc.; R2, R3, R4 = H, Me, benzyl, carboxyl, carboxamide, amine, saccharide; R5 = alkyl, alkenyl, alkynyl, aryl, heteroaryl, carboxyl, carboxamide], were prepared for pharmaceutical use as antiproliferative agents which induce cell apoptosis for treatment of cancers and diseases involving cell proliferation, such as autoimmune diseases, psoriasis, etc.. Thus, (R,R,R)- α -tocopherol derivative II was prepared in 88% yield by condensation of (R,R,R)- α -tocopherol and BrCH₂CO₂Me in DMF using NaOH followed by hydrolysis with 5 N HCl. The prepared tocopherol analogs were tested for their ability to induce apoptosis in a number of cancer cell lines, such as breast, cervical, colon, prostate, etc.

AN 2001:597976 CAPLUS <<LOGINID::20070718>>

DN 135:166941

TI Preparation of tocopherols, tocotrienols, other chroman and side chain derivatives that induce cell apoptosis for therapeutic use as antiproliferative agents

IN Sanders, Robert G.; Kline, Kimberly; Hurley, Laurence; Gardner, Robb; Menchaca, Marla; Yu, Weiping; Ramanan, Puthucode N.; Liu, Shenquan; Israel, Karen

PA Research Development Foundation, USA

SO PCT Int. Appl., 120 pp.

CODEN: PIXXD2

DT Patent

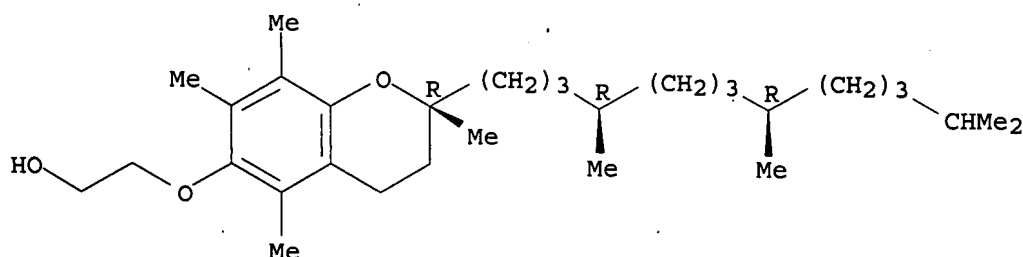
LA English

FAN.CNT 4

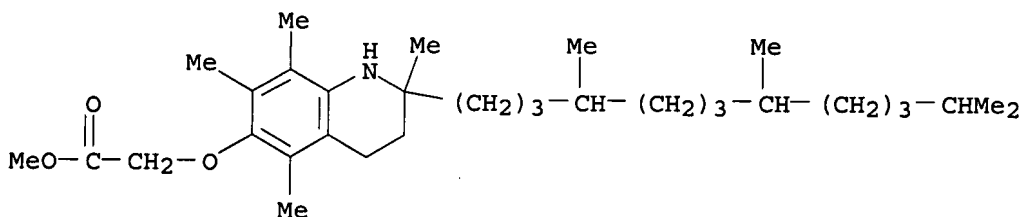
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RU 2263672 C2 20051110 RU 2002-124135 20010209 <--
 PRAI US 2000-502592 A 20000211 <--
 US 1998-101543P P 19980923 <--
 US 1999-404001 A2 19990923 <--
 WO 2001-US4168 W 20010209
 OS MARPAT 135:166941
 IT 200701-54-8P 354526-64-0P 354526-65-1P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of tocopherols, tocotrienols, other chromans that induce cell apoptosis for therapeutic use as antiproliferative agents)
 RN 200701-54-8 CAPLUS
 CN Ethanol, 2-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]- (9CI) (CA INDEX NAME)

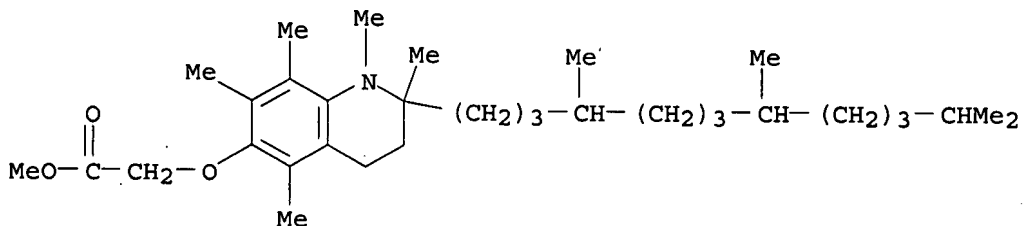
Absolute stereochemistry.



RN 354526-64-0 CAPLUS
 CN Acetic acid, [[1,2,3,4-tetrahydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-6-quinolinyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 354526-65-1 CAPLUS
 CN Acetic acid, [[1,2,3,4-tetrahydro-1,2,5,7,8-pentamethyl-2-(4,8,12-trimethyltridecyl)-6-quinolinyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



IT 261929-53-7P 261929-60-6P 261929-61-7P

261929-62-8P 261929-67-3P 261929-70-8P

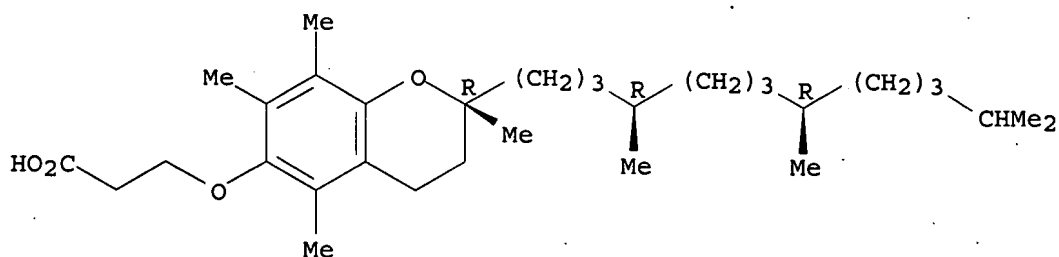
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of tocopherols, tocotrienols, other chromans that induce cell apoptosis for therapeutic use as antiproliferative agents)

RN 261929-53-7 CAPLUS

CN Propanoic acid, 3-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]- (9CI) (CA INDEX NAME)

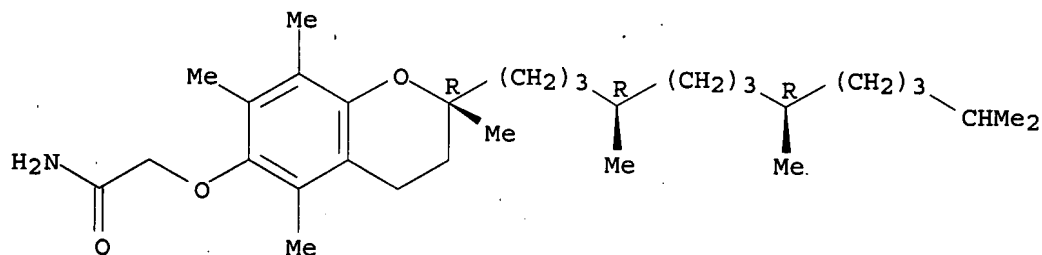
Absolute stereochemistry.



RN 261929-60-6 CAPLUS

CN Acetamide, 2-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]- (9CI) (CA INDEX NAME)

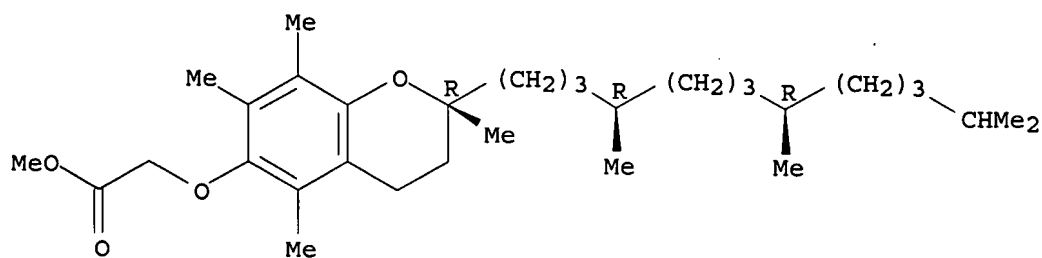
Absolute stereochemistry.



RN 261929-61-7 CAPLUS

CN Acetic acid, [[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



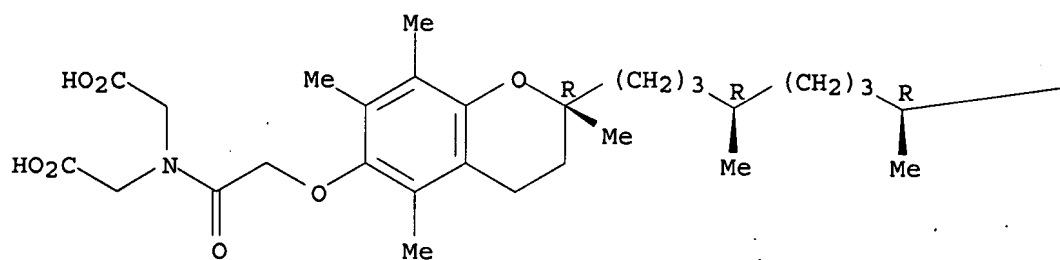
RN 261929-62-8 CAPLUS

CN Glycine, N-(carboxymethyl)-N-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]acetyl]- (9CI)

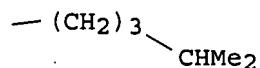
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

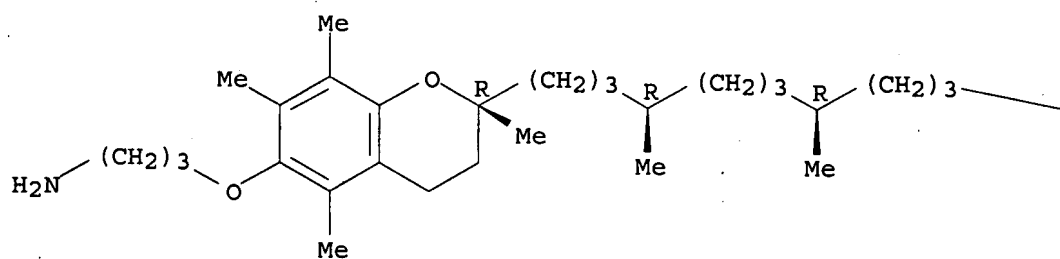


RN 261929-67-3 CAPLUS

CN 1-Propanamine, 3-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



● HCl

PAGE 1-B



RN 261929-70-8 CAPLUS

CN Ethanol, 2-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]-, hydrogen sulfate, compd. with N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

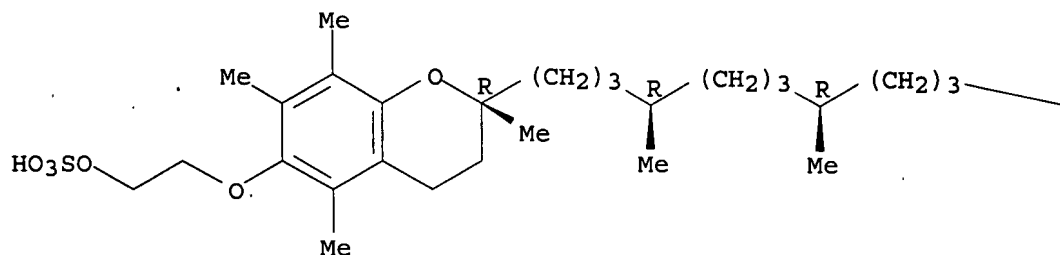
CM 1

CRN 261929-69-5

CMF C31 H54 O6 S

Absolute stereochemistry.

PAGE 1-A



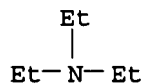
PAGE 1-B

—CHMe₂

CM 2

CRN 121-44-8

CMF C6 H15 N

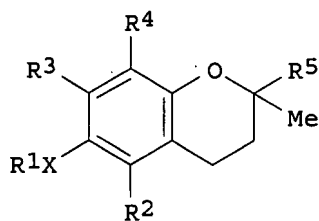


RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

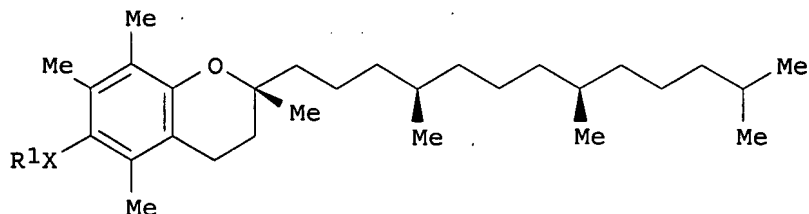
L6 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of tocopherols, tocotrienols, other chroman and side chain derivatives for use as antitumor agents and for inducing cell apoptosis

GI



I



II

AB Chromans I [R1 = alkyl, alkenyl, alkynyl, aryl, herteroaryl, carboxyl, carboxamide, thioamide, saccharide, amine, sulfate, phosphate, etc.; R2, R3, R4 = H, Me, benzylcarboxylate, saccharide, amino, etc.; R5 = alkyl, alkenyl, alkynyl, aryl, herteroaryl, carboxyl, carboxamide; X = O, NH, S] were prepared for pharmaceutical use as antitumor agents and cell apoptosis inducing agents. Thus, tocopherol derivative II (R1 = CH2CO2H, X = O) was prepared in 88% yield via O-alkylation of (+)- α -tocopherol with Me bromoacetate. The prepared chromans were tested for cell apoptosis activity against a variety of cancer cell lines.

AN 2000:209907 CAPLUS <<LOGINID::20070718>>

DN 132:237223

TI Preparation of tocopherols, tocotrienols, other chroman and side chain derivatives for use as antitumor agents and for inducing cell apoptosis

IN Kline, Kimberly; Sanders, Bob G.; Hurley, Laurence; Gardner, Robb; Menchaca, Marla; Yu, Weiping; Ramanan, Puthucode N.; Liu, Shenquan; Israel, Karen

PA Research Development Foundation, USA

SO PCT Int. Appl., 101 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 4

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PI	WO 2000016772	A1	20000330	WO 1999-US21778	19990923 <--
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IL 142082	A	20051218	IL 1999-142082	19990923 <--
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PRAI US 1998-101542P	P	19980923	<--	
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OS MARPAT 132:237223

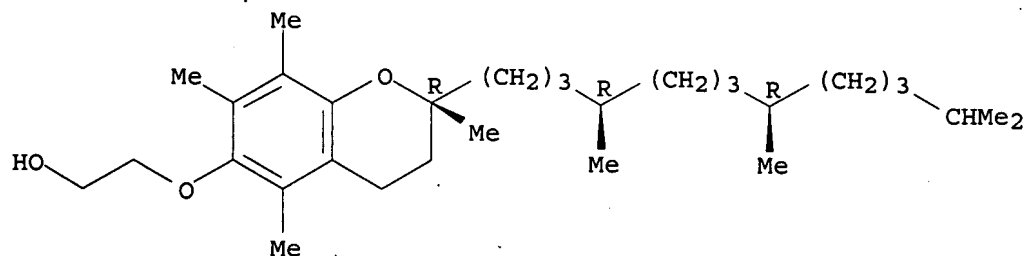
IT 200701-54-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of tocopherols, tocotrienols, other chroman and side chain derivs. for use as antitumor agents and for inducing cell apoptosis)

RN 200701-54-8 CAPLUS

CN Ethanol, 2-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



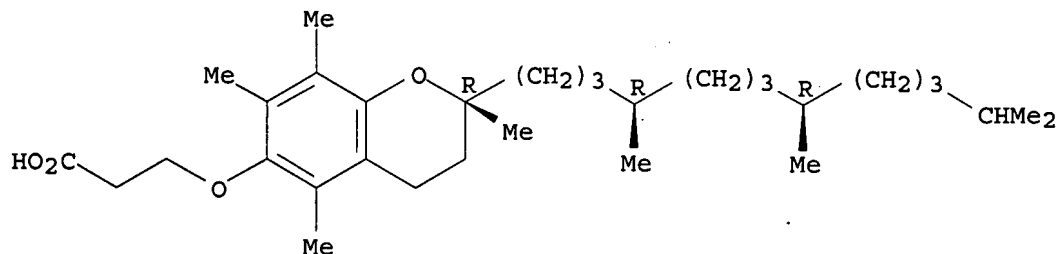
IT 261929-53-7P 261929-60-6P 261929-61-7P
261929-62-8P 261929-67-3P 261929-70-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of tocopherols, tocotrienols, other chroman and side chain derivs. for use as antitumor agents and for inducing cell apoptosis)

RN 261929-53-7 CAPLUS

CN Propanoic acid, 3-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]- (9CI) (CA INDEX NAME)

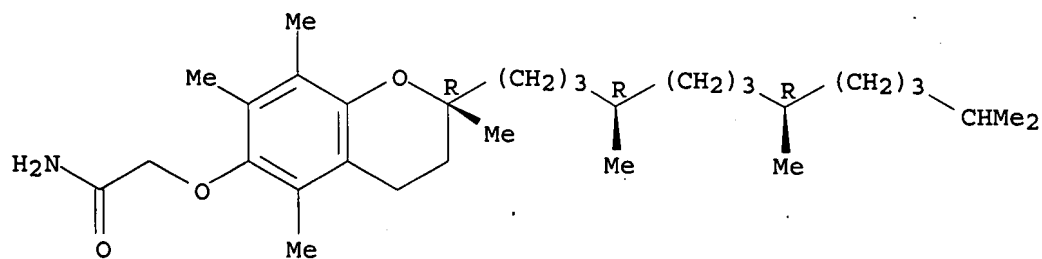
Absolute stereochemistry.



RN 261929-60-6 CAPLUS

CN Acetamide, 2-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]- (9CI) (CA INDEX NAME)

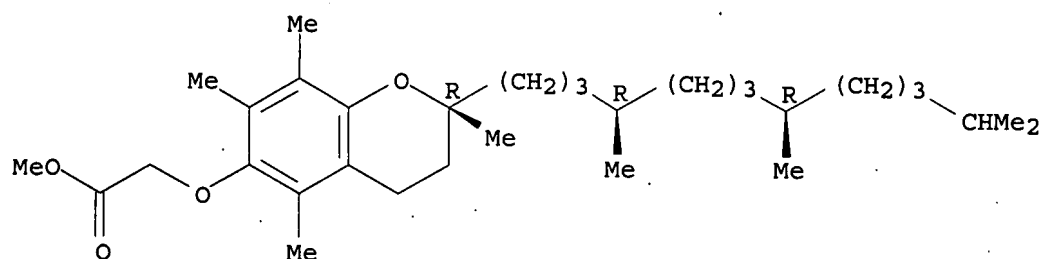
Absolute stereochemistry.



RN 261929-61-7 CAPLUS

CN Acetic acid, [[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

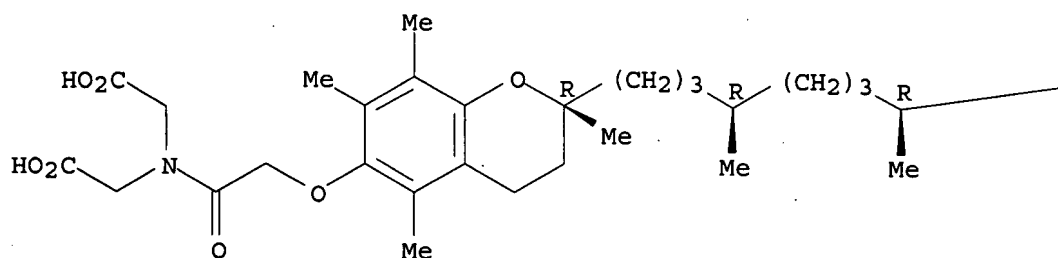


RN 261929-62-8 CAPLUS

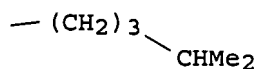
CN Glycine, N-(carboxymethyl)-N-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]acetyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



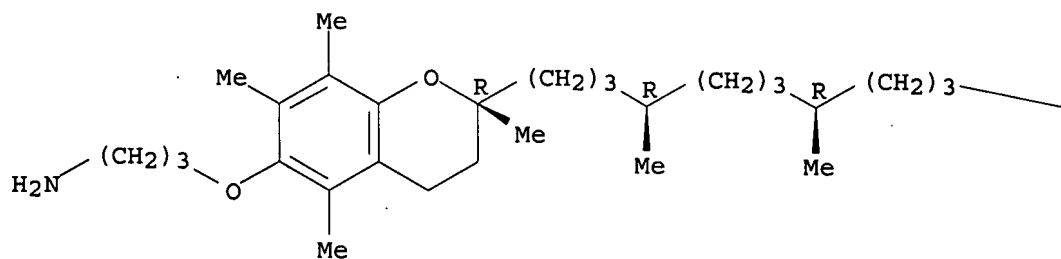
RN 261929-67-3 CAPLUS

CN 1-Propanamine, 3-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-

trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



● HCl

PAGE 1-B

—CHMe₂

RN 261929-70-8 CAPLUS
CN Ethanol, 2-[[[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]oxy]-, hydrogen sulfate, compd. with N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

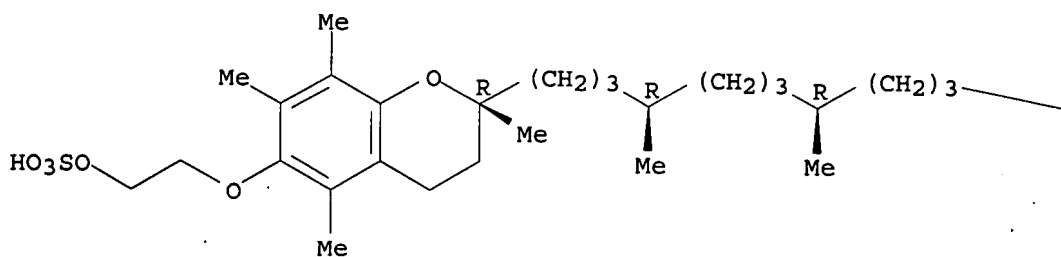
CM 1

CRN 261929-69-5

CMF C31 H54 O6 S

Absolute stereochemistry.

PAGE 1-A

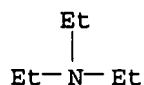


CHMe₂

CM 2

CRN 121-44-8

CMF C6 H15 N



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

TI Aqueous compositions containing corticosteroids for nasal and pulmonary delivery

AB The present invention provides compns. containing corticosteroid compds. as active agents for the treatment of ailments and diseases of the respiratory tract, particularly the lungs, by way of nasal and pulmonary administration. The corticosteroid compds. are present in a dissolved state in the compns. The compns. can be formulated in a concentrated, essentially non-aqueous form for storage or in a diluted, aqueous-based form for

ready delivery. The corticosteroid composition contains an ethoxylated derivative

of vitamin E and/or a polyethylene glycol fatty acid ester as the high-HLB surfactant present in the formulation. The compns. are ideally suited for inhaled delivery with a nebulizer or for nasal delivery. Thus, beclomethasone dipropionate monohydrate (2.8 mg) was dissolved in 997.2 mg of a 2:1 weight/weight mixture of PEG-200 and α -tocopherol polyethylene glycol succinate and the diluted (1:6.65 by volume) with water. The final solution contained 420 μ g beclomethasone dipropionate/mL of solution

AN 2000:14987 CAPLUS <<LOGINID::20070718>>

DN 132:83652

TI Aqueous compositions containing corticosteroids for nasal and pulmonary delivery

IN Saidi, Zahir; Klyashchitsky, Boris

PA LDS Technologies, Inc., USA

SO PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DT Patent

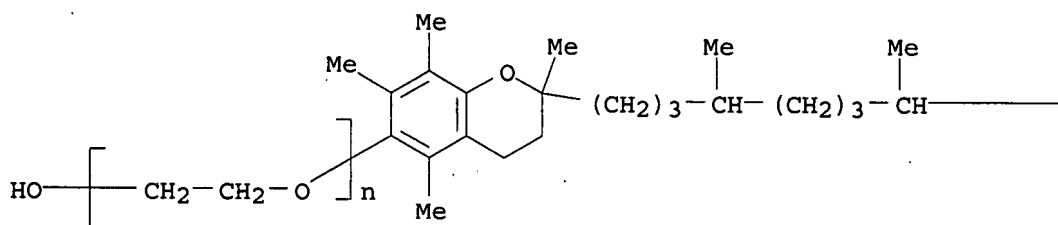
LA English

FAN.CNT 1

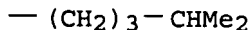
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	AU 9947171	A	20000117	AU 1999-47171	19990624 <--

EP 1089715 A1 20010411 EP 1999-930689 19990624 <--
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IE, FI
JP 2002519318 T 20020702 JP 2000-556766 19990624 <--
AT 311174 T 20051215 AT 1999-930689 19990624 <--
PRAI US 1998-105838 A2 19980626 <--
WO 1999-US14351 W 19990624 <--
IT 74707-11-2
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(aqueous compns. containing corticosteroids for nasal and pulmonary
delivery)
RN 74707-11-2 CAPLUS
CN Poly(oxy-1,2-ethanediyl), α -[3,4-dihydro-2,5,7,8-tetramethyl-2-
[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]- ω -hydroxy-,
(2R)- (9CI) (CA INDEX NAME)

PAGE 1-A

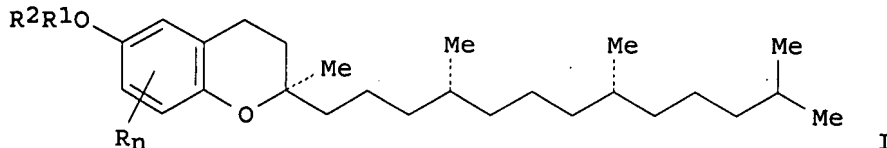


PAGE 1-B



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
TI synthesis and activity of polyoxypropylenepolyoxyethylene vitamin E
derivs.
GI



AB Synthesis and activity of polyoxypropylenepolyoxyethylene vitamin E (I) {R
= Me; n = 1-3; R1 = (OCH₂CH₂)_m; R2 = [OCH(Me)CH₂]_p} is disclosed. I is
prepared by subjecting vitamin E to polyethoxylation and then, to

polypropoxylation to a proper extent. I Is of superior anti-oxidation activity with water solubility The bent chain of I increases the cross-sectional area of the whole mol., making it difficult for the mol. to penetrate into the skin and safe to apply to the skin. I has superb surface activity by forming close bilayer vesicle structures, like phospholipids or dialkyl surfactants, so it can be advantageously used in the cosmetic, food, and medical industries.

AN 1999:784091 CAPLUS <<LOGINID::20070718>>

DN 132:23111

TI synthesis and activity of polyoxypropylenepolyoxyethylene vitamin E derivs.

IN Kim, Young Dae; Park, Keun Ja; Kim, Jung Soo; Kim, Ji Soo

PA S. Korea

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

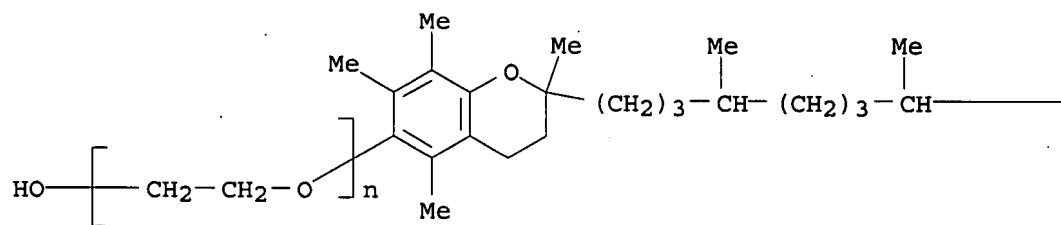
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	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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	EP 1091951	B1	20020904		
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	CN 1131225	B	20031217	CN 1999-808383	19990601 <--
	US 6355811	B1	20020312	US 2000-701719	20001201 <--
PRAI	KR 1998-20705	A	19980603 <--		
	WO 1999-KR270	W	19990601 <--		
IT	219845-09-7P				

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (synthesis and activity of polyoxypropylenepolyoxyethylene vitamin E derivs.)

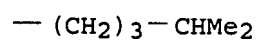
RN 219845-09-7 CAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[(2R)-3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-2H-1-benzopyran-6-yl]- ω -hydroxy-, rel- (9CI) (CA INDEX NAME)

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PAGE 1-B



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT